

Linear Highbay Light





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PROJECT

DATE

TYPE

PREPARED BY



KEY FEATURES

Beam Angle Selectable on all models

Color & Power Selectable on all models

Motion, Daylight and Network controls options

Emergency Battery Backup options

Multiple Mounting Options, optional Wire Guard

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

UL 1598 Suitable for damp locations

IESNA LM79 & LM-80 Testing

Paclights LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Qualification

Selected models of this product are on the Design Lights Consortium (DLC) Qualified Products List and are eligible for rebates from DLC Member Utilities. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/qpl

LED CHARACTERISTICS

LEDS

Long-life, high-ecacy, surface-mount LEDs

Correlated Color Temperature

3500K, 4000K, 5000K selectable with a dip switch

Lifespar

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Color Rendering Index

>82

Color Uniformity

PacLights' range of Correlated Color Temperature follows the guidelines of the American National Standard for Specications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017

OTHER

5-Year Limited Warranty**

The PacLights 5-year, limited warranty covers light output, driver performance and paint finish.

**PacLights's warranty is subject to all terms and conditions found at paclights.com/warranty

CONSTRUCTION

Ambient Temperature

Suitable for up to 50° C (122° F) ambient temperature

Cold Weather Starting

The minimum starting temperature is -4 F°/-20° C

Housing

Durable cold rolled steel housing provides strength and uniformity. Luminaire is pre-painted to enhanced smooth finish.

Mounting Methods

Chain mount (40" chain included). Accessories available for aircraft cable suspended, 3/4" NPT conduit pendant, or suface mount.

Green Technology

Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

Lens

Polycarbonate optics

ELECTRICAL

Drivers

Input Voltage: 120-347V Universal Voltage, 50-60 Hz, optional 480v.

Power Factor : > 0.95, THD< 20%

0-10V continuous dimming, can be dim to off

Control Receptacle

12v DC receptacle compatible with selected motion, daylight and network controls.

Wattage / Input Voltage/ Input Current

Wattage/power selectable with a dip switch

MODEL	WATT. SELECTABLE	120v	208v	240v	277v	347v	480v
FLHQ/2-160/130/105	160w-130w-105w	1.48A	0.85A	0.74A	0.64A	0.51A	0.37A
FLHQ/2-240/210/180	240w-210w-180w	2.22A	1.28A	1.11A	0.96A	0.77A	0.56A
FLHQ/2-320/295/255	320w-295w-255w	2.96A	1.71A	1.48A	1.28A	1.02A	0.74A

ORDERING INFORMATION

FLHQ[™] generation 2

FAMILY	MODEL	INPUT VOLTAGE	сст	BEAM ANGLE	CONTROL	EMERGENCY BACKUP	MOUNTS	OTHER
FLHQ/2 —								

Create an ordering number by populating it with the CODES listed in the tables below, following the format shown above.

EXAMPLE: FLHQ/2 - 240/210/180 - UV - 8CT - DX - MCP **EXAMPLE:** FLHQ/2 - 320/295/255 - UV - 8CT - D4 - EM6000 **EXAMPLE:** FLHQ/2 - 295 - HV - 40 - D7 - MCD - EM4500 - ACS - WG

The PART SKUs, if shown in the tables below, can be ordered separately from the FLHQ.

* MUST SELECT ONE

MODEL

* MUST SELECT ONE

CODE	WATTAGE SELECTABLE	CODE	WATTAGE	CODE	WATTAGE	CODE	WATTAGE
160/130/105	160w/130w/105w	105	105w	180	180w	255	255w
240/210/180	240w/210w/180w	130	130w	210	210w	295	295w
320/295/255	320w/295w/255w	160	160w	240	240w	320	320w

INPUT VOLTAGE

CCT

* MUST SELECT ONE

CODE	INPUT VOLTAGE
UV	120/208/240/277/347v
HV	480v

CODE	CRI	COLOR SELECTABLE
8CT	> 82	3500K/4000K/5000K

BEAM ANGLE

* MUST SELECT ONE

CODE	BEAM ANGLE
DX	Selectable - Standard, Aisle, Narrow Aisle
D9	Standard, 90° x 90°
D7	Aisle, 70° x 100°
D4	Narrow Aisle, 45° x 100°

CONTROL

* LEAVE BLANK, or SELECT ONE

CODE	TYPE	PART SKU	SENSOR	MOUNT	INSTALL
MCP		SE-BC-ANT64T	PIR & Daylight Threshold	Plug&Play	FIELD
MCW	Standalone	SE-BC-ANT54T	Microwave & Daylight Threshold	Plug&Play	FIELD
MCD		SE-BC-ANT54TVAL	Microwave & Daylight Harvesting	Plug&Play	FIELD
WBN	Bluetooth	KEILTON-WPPA102-AUX	N/A	Plug&Play	FIELD
WBP	Networked	KEILTON-EFS106-AUX	PIR & Daylight	Plug&Play	FIELD

EMERGENCY BATTERY BACKUP

* LEAVE BLANK, or SELECT ONE

CODE	INPUT VOLTAGE	PART SKU	WATT	EMERGENCY LUMEN	COMPATIBLE	EMERGENCY RUNTIME	INSTALL
FM4F00	120-277v	EMC-30	20	4 F00 Luman	105 to 240 w models	> 90 mins	FACTORY
EM4500	480v	EMC-30-H	30w	4,500 Lumen	105 to 240w models		
EM6000	120-277v	EMC-40	40	6.000 Luman			
EM6000	480v	EMC-40-H	40w	6,000 Lumen	All models		
EM0000	120-277v	EMC-60	60	0.000 Luman			
EM9000	480v EMC-60-H	9,000 Lumen					

MOUNTS

* LEAVE BLANK (v-hook and 40" chains included), or SELECT ONE

CODE	PART SKU	COMPATIBLE	ТҮРЕ	INSTALL
ACS	AC-LHB-ACS	All models	Aircraft Cable Kit, adjustable up to 120"	
ACL	AC-LHB-ACL	All models	Aircraft Cable Kit, adjustable up to 196"	FIELD
SM	AC-LHQ-2SM	All models	Surface Mount Kit	FIELD
PM	AC-LHQ-2PM	All models	Pendant/Conduit Mount Kit, 3/4" NPT	

OTHER

* LEAVE BLANK, or SELECT ONE or MORE (connect with "-")

W	ire	G	ua	rd

CODE	PART SKU	COMPATIBLE	INSTALL
	AC-LHQ-2WGS	160/130/105w models	
WG	AC-LHQ-2WGM	240w/210w/180w models	FIELD
	AC-LHQ-2WGL	320w/295w/255w models	

Cord

* can be ordered in multiple of 6', such as 12FTAC, 18FTAC, etc.

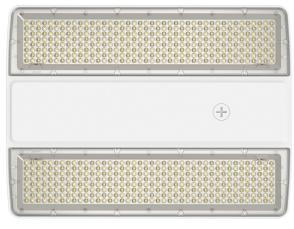
CODE	PART SKU	TYPE	COMPATIBLE	INSTALL
6FTAC	OS-GL-ES-183-SJT-W-72	6' cord, 3-wires (L/N/G)	Standard	
6FTAD	OS-GL-ES-185-SJT-W-72	6' cord, 5-wires (L/N/G and 0-10v dimming)	Models	FACTORY
6FTACS	OS-GL-ES-184-SJT-W-72	6' cord, 4-wires (L/N/G and Switch)	Emergency Backup	FACTURY
6FTADS	OS-GL-ES-186-SJT-W-72	6' cord, 6-wires (L/N/G, Switch and 0-10v dimming)	Models	

Plug

-						
CODE	PART SKU	TYPE	Voltage	COMPATIBLE		INSTALL
P5_15P	PLUG-5-15P	5-15P Plug	120v	Standard Models	must also select	FACTORY
PL7_15P	PLUG-L7-15P	L7-15P Twist Lock Plug	277v	Standard Models	"3-wires cord"	
PL8_20P	PLUG-L8-20P	L8-20P Twist Lock Plug	480v	480v ("HV") Models	option	

PERFORMANCE

	Lumen Package	Wattage	CCT Setting	Lumen Output
		105w	3500K	14,700
	15,000		4000K	15,225
			5000K	15,015
		130w	3500K	18,200
	18,000		4000K	18,850
			5000K	18,590
		160w	3500K	22,400
	23,000		4000K	23,200
			5000K	22,880
_		180w	3500K	25,200
CR	26,000		4000K	26,100
Delivered Lumens, 82 CRI			5000K	25,740
ens	30,000	210w	3500K	29,400
Ę			4000K	30,450
ρς			5000K	30,030
vere		240w	3500K	33,600
Jeli	34,000		4000K	34,800
_			5000K	34,320
			3500K	35,700
	36,000	255w	4000K	36,975
			5000K	36,465
		295w	3500K	41,300
	42,000		4000K	42,775
			5000K	42,185
		320w	3500K	44,800
	46,000		4000K	46,400
			5000K	45,760





STANDARD FEATURES

SELECTABLE COLOR (CCT) AND POWER



Select the desired output power or light color temperature by sliding the respective Power or CCT Selection Switch left or right to the desired value. CCT can be adjusted to 3500/4000/5000K, and for each model Wattage/Lumen can be adjusted to the 3 different levels shown on the performance chart.

STANDARD FEATURES continued

SELECTABLE BEAM ANGLE

The fixture features a dip switch that enables to select the desired beam angles for different warehouse applications. (ORDERING CODE: DX)

BEAM

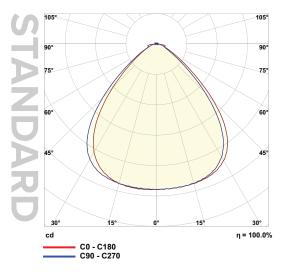
90° x 90°

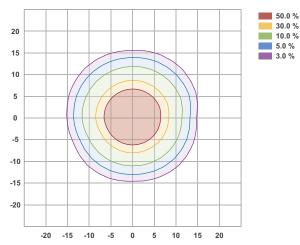
ORDERING CODE

D9

PURPOSE

for general warehouse spaces





BEAM

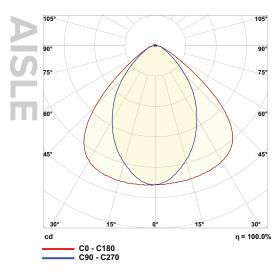
70° x 100°

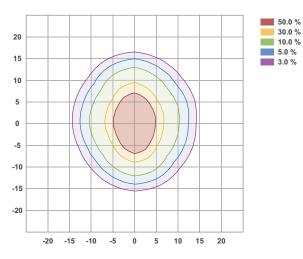
ORDERING CODE

D7

PURPOSE

for warehouse spaces with aisle racking





BEAM

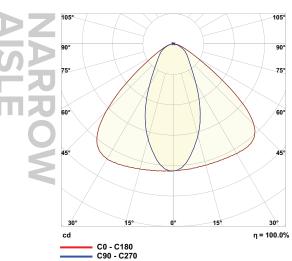
45° x 100°

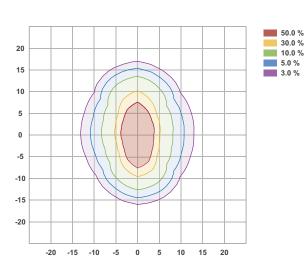
ORDERING CODE

D4

PURPOSE

for warehouse spaces with narrow aisle racking





CONTROL Options

STANDALONE SENSOR CONTROLS (OPTION: -MCP/-MCW/-MCD)

PASSIVE INFRARED BI-LEVEL MOTION & DAYLIGHT (OPTION: -MCP)



A PIR (Passive Infrared) sensor is capable of detecting variations in infrared radiation, which depend on the temperature and surface properties of objects in its field of view. This sensor has a 3-step dimming function, which is ideal for areas needing gradual light adjustments before a complete shutdown. Additionally, if the daylight function is activated, the sensor can turn off the light based on a preset level of ambient light. The settings for these functions can be fine-tuned using an optional wireless commissioning device.







Option: -MCW SKU: SE-BC-ANT54T



Option: -MCD SKU: SE-BC-ANT54TVAL

MICROWAVE BI-LEVEL MOTION & DAYLIGHT (OPTION: -MCW)



Microwave occupancy control sensors are designed to detect motion through materials such as plastic, glass, and thin non-metallic substances. They are equipped with a 3-step dimming function that is ideal for areas where gradual changes in lighting are preferred before a complete shutdown. If the daylight sensor feature is activated, it can turn off the light based on predetermined levels of ambient light. The settings for these functions can be adjusted using an optional wireless commissioning device.

MOTION AND DAYLIGHT HARVESTING (OPTION: -MCD)



In addition to all the features offered by a microwave bi-level occupancy control, daylight harvesting control further reduces the use of electric lighting in building interiors when natural daylight is available. This function adjusts the artificial lighting levels based on the amount of natural light entering the space, enhancing energy efficiency and providing a more sustainable lighting solution.

9000 9000 9000

OPTIONAL
wireless commissioning
remote device
SKU: SE-BC-RC-100

-MCP / -MCW / -MCD Controls Specification *default setting

Sensitivity	20%/50%/75%/100%*		
Hold Time (before dim)	10s/1min/5min*/10min/15min/20min/30min/60min		
Daylight Threshold	10/30/50/100/300/500 Lux, or Disable*		
Stand-by Time(before turn off)	1min/30min/60min*, or Never		
Stand-by Dimming Level	10%/30%*/50%		
Detection Height	up to 40ft		
Detection Radius	up to 50ft		

NETWORKED LIGHTING CONTROLS (OPTION: -WBP/-WBN)



Network Lighting Controls (NLC) offer Luminaire Level Lighting Control (LLLC) based on Bluetooth-enabled Mesh Networking of Luminaires. Individual addressability enables luminaires to be communicated with each other within the zone/network. Luminaires can be grouped, trim and controlled by using the smart device app or connected wall switches. Scheduling, scene and sensors can be added for automation among the lights within the zone/group.

- (-WBP) Wireless bluetooth networked control with PIR occupancy and daylight harvesting sensor
- (-WBN) Wireless bluetooth networked control (node only)



Option: -WBN
SKU: KEILTON-WPPA102-AUX



Option: -WBP SKU: KEILTON-EFS106-AUX



FREE iOS/Andriod APP will be used to commissioning or customize settings of networked controls.

EMERGENCY BACKUP Option

EMERGENCY BATTERY BACKUP (OPTION: -EMXXXX)



When there is a power outage, the optional emergency backup driver and battery will power the FLHQ to an reduced brightness for at least 90 mins.

* FACTORY INSTALLED



MOUNTS Option

CHAIN MOUNT (STANDARD - INCLUDED)



One pair of chains with v-hooks are included, each length adjustable, up to 40"

* FIELD INSTALLED

SURFACE MOUNT (OPTION: -SM)



The surface mount kit allows the FLHQ to be mounted to a flat surface or the building's beams.

* FIELD INSTALLED

AIRCRAFT CABLE KIT (OPTION: -AC)



Aircraft cable for suspended mount, length adjustable up to 120" or 196"

* FIELD INSTALLED

PENDANT MOUNT (OPTION: -PM)



The conduit mount kit allows the FLHQ to be pendant mounted to a 3/4" conduit and enables electrical wires to run through the conduit.

* FIELD INSTALLED

OTHER Option

WIRE GUARD (OPTION: -WG)



Protect FLHQ with the impact & vandal resistant wire guard. Use this lighting accessory to reduce damage to the lens from flying debris. Easy to attach on site.

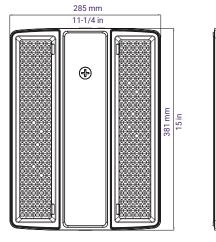
* FIELD INSTALLED

DIMENSIONS

FLHQ/2 - 160/130/105

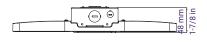
Weight 6 lbs

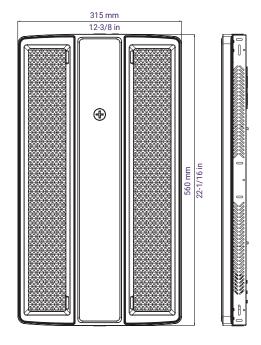




FLHQ/2 - 320/295/255

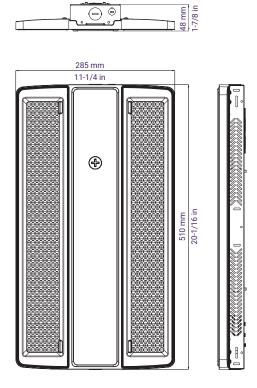
Weight 9 lbs





FLHQ/2 - 240/210/180

Weight 8 lbs





White

all models

PacLights

NETWORKED CONTROLS MADE EASY

Keilton+autani Networked Controls, a DLC® Qualified Networked Lighting Controls Product, make it easy for facilities to save energy, improve occupancy comfort and achieve code compliance by adding Luminaire Level Lighting Controls (LLLC) to indoor and outdoor applications. It allows for easy field installation of sensors and network nodes with selected PacLights controls ready fixtures. Using the Keilton app, nodes can be commissioned without the need for a gateway or internet access.





A Cost-Effective Decentralized Architecture
Direct Mobile Device Provisioning
Best-In-Class Scale, Performance & Reliability







LEARN MORE, VISIT www.paclights.com/NLC









FEATURES

- Luminaire Level Lighting Control (LLLC)
- Bluetooth-enabled Mesh Networking of Luminaires and Devices
- Individual Addressability, address individual or multiple luminaires
- High-end and Low-end Trim
- Zoning & Grouping
 - ♦ Add and control up to 100 devices per zone
 - Add unlimited zones to scale for bigger installation
 - Oreate unlimited groups (combination of sensor or network nodes) within a zone
 - ♦ Link and control the whole group or zone
- Scene control
 - ♦ Create and link scenes to individual lights or groups within a zone
 - ♦ Select scene with App or wall switch
- Time Scheduling for individual lights, groups or scenes
- Sensors integrated with BLE, occupancy and daylight sensing
- Multi-level Dimming, Daylight Harvesting and Occupancy controls
- Manual/Automatic ON/OFF and Automatic partial ON/OFF control capability
- Control with wireless wall switch or smart device
- Secure commissioning with Keilton App
- Up to 100 ft node-to-node and 50 ft node-to-device
- Demand Response option (works with OpenADR gateways)
- Controlled 120v 20A Receptacle available
- Other control features to meet code compliance

Keilton+autani and its logo is a trademark of Litetrace; PacLights and its logo is a trademark of PacLights, LLC

DLC and its logo is a trademark of DesignLights Consortium.

Keilton is the qualified system name listed on the DLC Networked Lighting Controls QPL.



NETWORKED CONTROLS for FLHQ series

PacLights

NETWORKED NODES ONLY

DESCRIPTION **FUNCTION** CONTROL ORDER CODE

KEILTON-WPPA102-AUX



BLUETOOTH MESH NODE

Enable network controlled - on & KEILTON WPPA102-AUX DC AUX off, dim, trim, zone, group, scene & schedule, etc.

-WBN

NETWORKED NODES WITH SENSOR

DESCRIPTION FUNCTION CONTROL ORDER CODE

KEILTON-EFS106-AUX



KEILTON EFS106-AUX DC AUX BLUETOOTH MESH NODE W/ PIR **DLH SENSOR**

Enable network controlled - on & off, dim, trim, zone, group, scene & schedule, etc. And, PIR occupancy & daylight (harvesting) sensing.

-WBP

Keilton+autani and its logo is a trademark of Litetrace; PacLights and its logo is a trademark of PacLights, LLC DLC and its logo is a trademark of DesignLights Consortium. Keilton is the qualified system name listed on the DLC Networked Lighting Controls QPL.